

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/540,959
Source: PCF
Date Processed by STIC: 7-12-05

ENTERED



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/540,959

DATE: 07/12/2005
TIME: 10:04:22

Input Set : D:\A184seq.txt
Output Set: N:\CRF4\07122005\J540959.raw

```

4 <110> APPLICANT: BIOGEN IDEC MA INC.
5     RENNERT, Paul
7 <120> TITLE OF INVENTION: KIM-1 Antagonists and Use to Modulate
8     Immune System
10 <130> FILE REFERENCE: A184 PCT
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/540,959
C--> 13 <141> CURRENT FILING DATE: 2005-06-28
15 <150> PRIOR APPLICATION NUMBER: 60/436934
16 <151> PRIOR FILING DATE: 2002-12-30
18 <160> NUMBER OF SEQ ID NOS: 5
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 518
24 <212> TYPE: PRT
25 <213> ORGANISM: Artificial Sequence
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Human KIM-1 Extracellular Domain Fc Construct
30 <400> SEQUENCE: 1
31 Met His Pro Gln Val Val Ile Leu Ser Leu Ile Leu His Leu Ala Asp
32   1           5           10          15
33 Ser Val Ala Gly Ser Val Lys Val Gly Gly Glu Ala Gly Pro Ser Val
34           20          25          30
35 Thr Leu Pro Cys His Tyr Ser Gly Ala Val Thr Ser Met Cys Trp Asn
36           35          40          45
37 Arg Gly Ser Cys Ser Leu Phe Thr Cys Gln Asn Gly Ile Val Trp Thr
38           50          55          60
39 Asn Gly Thr His Val Thr Tyr Arg Lys Asp Thr Arg Tyr Lys Leu Leu
40   65          70          75          80
41 Gly Asp Leu Ser Arg Arg Asp Val Ser Leu Thr Ile Glu Asn Thr Ala
42           85          90          95
43 Val Ser Asp Ser Gly Val Tyr Cys Cys Arg Val Glu His Arg Gly Trp
44           100         105         110
45 Phe Asn Asp Met Lys Ile Thr Val Ser Leu Glu Ile Val Pro Pro Lys
46           115         120         125
47 Val Thr Thr Thr Pro Ile Val Thr Thr Val Pro Thr Val Thr Thr Val
48           130         135         140
49 Arg Thr Ser Thr Thr Val Pro Thr Thr Thr Val Pro Thr Thr Thr
50   145          150          155          160
51 Val Pro Thr Thr Met Ser Ile Pro Thr Thr Thr Val Pro Thr Thr
52           165          170          175
53 Met Thr Val Ser Thr Thr Ser Val Pro Thr Thr Thr Ser Ile Pro
54           180          185          190
55 Thr Thr Thr Ser Val Pro Val Thr Thr Val Ser Thr Phe Val Pro

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56	195	200	205
57	Pro Met Pro Leu Pro Arg Gln Asn His Glu Pro Val Ala Thr Ser Pro		
58	210	215	220
59	Ser Ser Pro Gln Pro Ala Glu Thr His Pro Thr Thr Leu Gln Gly Ala		
60	225	230	235
61	Ile Arg Arg Glu Pro Thr Ser Ser Pro Leu Tyr Ser Tyr Thr Thr Asp		240
62	245	250	255
63	Gly Asn Asp Thr Val Thr Glu Ser Ser Asp Gly Leu Trp Asn Asn Asn		
64	260	265	270
65	Gln Thr Gln Leu Phe Leu Glu His Ser Leu Leu Thr Ala Asn Thr Thr		
66	275	280	285
67	Lys Gly Val Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu		
68	290	295	300
69	Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp		
70	305	310	315
71	Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp		320
72	325	330	335
73	Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly		
74	340	345	350
75	Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn		
76	355	360	365
77	Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp		
78	370	375	380
79	Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro		
80	385	390	395
81	Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu		400
82	405	410	415
83	Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn		
84	420	425	430
85	Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile		
86	435	440	445
87	Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr		
88	450	455	460
89	Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys		
90	465	470	475
91	Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys		480
92	485	490	495
93	Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu		
94	500	505	510
95	Ser Leu Ser Pro Gly Lys		
96	515		
99	<210> SEQ ID NO: 2		
100	<211> LENGTH: 357		
101	<212> TYPE: PRT		
102	<213> ORGANISM: Artificial Sequence		
104	<220> FEATURE:		
105	<223> OTHER INFORMATION: Human KIM-1 Partial Extracellular Domain Fc		
106	Construct		
108	<400> SEQUENCE: 2		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/540,959

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Input Set : D:\A184seq.txt
Output Set: N:\CRF4\07122005\J540959.raw

109 Met His Pro Gln Val Val Ile Leu Ser Leu Ile Leu His Leu Ala Asp
 110 1 5 10 15
 111 Ser Val Ala Gly Ser Val Lys Val Gly Gly Glu Ala Gly Pro Ser Val
 112 20 25 30
 113 Thr Leu Pro Cys His Tyr Ser Gly Ala Val Thr Ser Met Cys Trp Asn
 114 35 40 45
 115 Arg Gly Ser Cys Ser Leu Phe Thr Cys Gln Asn Gly Ile Val Trp Thr
 116 50 55 60
 117 Asn Gly Thr His Val Thr Tyr Arg Lys Asp Thr Arg Tyr Lys Leu Leu
 118 65 70 75 80
 119 Gly Asp Leu Ser Arg Arg Asp Val Ser Leu Thr Ile Glu Asn Thr Ala
 120 85 90 95
 121 Val Ser Asp Ser Gly Val Tyr Cys Cys Arg Val Glu His Arg Gly Trp
 122 100 105 110
 123 Phe Asn Asp Met Lys Ile Thr Val Ser Leu Glu Ile Val Pro Pro Lys
 124 115 120 125
 125 Val Val Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
 126 130 135 140
 127 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr
 128 145 150 155 160
 129 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val
 130 165 170 175
 131 Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val
 132 180 185 190
 133 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser
 134 195 200 205
 135 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu
 136 210 215 220
 137 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala
 138 225 230 235 240
 139 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
 140 245 250 255
 141 Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln
 142 260 265 270
 143 Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala
 144 275 280 285
 145 Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr
 146 290 295 300
 147 Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu
 148 305 310 315 320
 149 Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser
 150 325 330 335
 151 Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser
 152 340 345 350
 153 Leu Ser Pro Gly Lys
 154 355
 157 <210> SEQ ID NO: 3
 158 <211> LENGTH: 298
 159 <212> TYPE: PRT

RAW SEQUENCE LISTING DATE: 07/12/2005
PATENT APPLICATION: US/10/540,959 TIME: 10:04:22

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160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Human KIM-1 Extracellular Domain Histag Construct
165 <400> SEQUENCE: 3
166 Met His Pro Gln Val Val Ile Leu Ser Leu Ile Leu His Leu Ala Asp
167 1 5 10 15
168 Ser Val Ala Gly Ser Val Lys Val Gly Gly Glu Ala Gly Pro Ser Val
169 20 25 30
170 Thr Leu Pro Cys His Tyr Ser Gly Ala Val Thr Ser Met Cys Trp Asn
171 35 40 45
172 Arg Gly Ser Cys Ser Leu Phe Thr Cys Gln Asn Gly Ile Val Trp Thr
173 50 55 60
174 Asn Gly Thr His Val Thr Tyr Arg Lys Asp Thr Arg Tyr Lys Leu Leu
175 65 70 75 80
176 Gly Asp Leu Ser Arg Arg Asp Val Ser Leu Thr Ile Glu Asn Thr Ala
177 85 90 95
178 Val Ser Asp Ser Gly Val Tyr Cys Cys Arg Val Glu His Arg Gly Trp
179 100 105 110
180 Phe Asn Asp Met Lys Ile Thr Val Ser Leu Glu Ile Val Pro Pro Lys
181 115 120 125
182 Val Thr Thr Pro Ile Val Thr Thr Val Pro Thr Val Thr Thr Val
183 130 135 140
184 Arg Thr Ser Thr Thr Val Pro Thr Thr Thr Val Pro Thr Thr Thr
185 145 150 155 160
186 Val Pro Thr Thr Met Ser Ile Pro Thr Thr Thr Val Pro Thr Thr
187 165 170 175
188 Met Thr Val Ser Thr Thr Ser Val Pro Thr Thr Thr Ser Ile Pro
189 180 185 190
190 Thr Thr Thr Ser Val Pro Val Thr Thr Thr Val Ser Thr Phe Val Pro
191 195 200 205
192 Pro Met Pro Leu Pro Arg Gln Asn His Glu Pro Val Ala Thr Ser Pro
193 210 215 220
194 Ser Ser Pro Gln Pro Ala Glu Thr His Pro Thr Thr Leu Gln Gly Ala
195 225 230 235 240
196 Ile Arg Arg Glu Pro Thr Ser Ser Pro Leu Tyr Ser Tyr Thr Thr Asp
197 245 250 255
198 Gly Asn Asp Thr Val Thr Glu Ser Ser Asp Gly Leu Trp Asn Asn Asn
199 260 265 270
200 Gln Thr Gln Leu Phe Leu Glu His Ser Leu Leu Thr Ala Asn Thr Thr
201 275 280 285
202 Lys Gly Val Glu His His His His His His
203 290 295
206 <210> SEQ ID NO: 4
207 <211> LENGTH: 1398
208 <212> TYPE: DNA
209 <213> ORGANISM: Murine
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Human KIM-1 Extracellular Domain Fe Construct Fc
214 <400> SEQUENCE: 4
  
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RAW SEQUENCE LISTING DATE: 07/12/2005
PATENT APPLICATION: US/10/540,959 **TIME:** 10:04:22

Input Set : D:\A184seq.txt
Output Set: N:\CRF4\07122005\J540959.raw

215 atgaatcaga ttcaagtctt catttcaggc ctcatactgc ttctcccagg cactgtggat 60
 216 tcttatgtgg aagtaaaggg ggttagtggt caccctgtca cacttccatg tacttactca 120
 217 acatatcgta gaatcacaac gacatgttgg ggccgagggc aatgcccatc ttctgcttgc 180
 218 caaaaatacac ttattttggac caatggacat cgtgcacact atcagaagag cagtcggat 240
 219 aacttaaagg ggcattttc agaaggagat gtgtccttga cgatagagaa ctctgtttag 300
 220 agtgacagtg gtctgtattt tggtcgagtg gagattcctg gatggttaa tgatcagaaa 360
 221 gtgacccctt cattgcaagt taaaccagag attccccac gtcctccaac aagacccaca 420
 222 actacaaggc ccacagctac aggaagaccc acgactattt caacaagatc cacacatgt 480
 223 ccaacatcaa tcagagtctc tacctccact cctccaaat ctacacacac atggactcac 540
 224 aaaccagaac ccactacatt ttgtccccat gagacaacag ctgaggtgac agaataccca 600
 225 tccctatactc ctacagactg gaatggcact ggcacatctt caggagatac ctggagtaat 660
 226 cacactgaag caatccctcc agggaaagccg cagaaaaacc ctactaaggg cgtcgacaaa 720
 227 actcacacat gcccaccgtg cccagcacct gaactcctgg ggggaccgtc agtcttcctc 780
 228 ttccccccaa aacccaaagga caccctcatg atctcccgaa cccctgaggt cacatgcgtg 840
 229 gtgggtggacg tgagccacga agaccctgag gtcaagttca actggtaatc ggacggcg 900
 230 gaggtgcata atgccaagac aaagccgcgg gaggagcagt acaacagcac gtaccgtgt 960
 231 gtcagcgtcc tcaccgtcct gcaccaggac tggctgaatg gcaaggagta caagtgc 1020
 232 gtctccaaca aagccctccc agccccatc gagaaaaacc tctccaaatc caaaggccag 1080
 233 ccccgagaac cacaggtgta caccctgccc ccattccggg atgagctgac caagaaccag 1140
 234 gtcagcctga cctgocctggt caaaggcttc tatccctggc acatcccggt ggagtggag 1200
 235 agcaatgggc agccggagaa caactacaag accacgcctc ccgtgttggc ctccgacggc 1260
 236 tcttttttcc tctacagcaa gtcaccgtg gacaagagca ggtggcagca gggaaacgtc 1320
 237 ttctcatgtc ccgtgatgca tgaggctctg cacaaccact acacgcagaa gagcctctcc 1380
 238 ctgtctcccg ggaaatga 1398

240 <210> SEQ ID NO: 5

241 <211> LENGTH: 465

242 <212> TYPE: PRT

243 <213> ORGANISM: Artificial Sequence

245 <220> FEATURE:

246 <223> OTHER INFORMATION: KIM-1 Fc Fusion

248 <400> SEQUENCE: 5

249 Met Asn Ile Gln Val Phe Ile Ser Gly Leu Ile Leu Leu Pro							
250 1	5	10	15				
251 Gly Thr Val Asp Ser Tyr Val Glu Val Lys Gly Val Val Gly His Pro							
252	20	25	30				
253 Val Thr Leu Pro Cys Thr Tyr Ser Thr Tyr Arg Gly Ile Thr Thr Thr							
254	35	40	45				
255 Cys Trp Gly Arg Gly Gln Cys Pro Ser Ser Ala Cys Gln Asn Thr Leu							
256	50	55	60				
257 Ile Trp Thr Asn Gly His Arg Val Thr Tyr Gln Lys Ser Ser Arg Tyr							
258	65	70	75	80			
259 Asn Leu Lys Gly His Ile Ser Glu Gly Asp Val Ser Leu Thr Ile Glu							
260	85	90	95				
261 Asn Ser Val Glu Ser Asp Ser Gly Leu Tyr Cys Cys Arg Val Glu Ile							
262	100	105	110				
263 Pro Gly Trp Phe Asn Asp Gln Lys Val Thr Phe Ser Leu Gln Val Lys							
264	115	120	125				
265 Pro Glu Ile Pro Thr Arg Pro Pro Thr Arg Pro Thr Thr Arg Pro							
266	130	135	140				

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/540,959

DATE: 07/12/2005
TIME: 10:04:23

Input Set : D:\A184seq.txt
Output Set: N:\CRF4\07122005\J540959.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date